

I CLAIM AS MY INVENTION:

1. A method for testing a software system that operates a technical system, comprising the steps of:

generating an operation model based on a reproducible operation procedure,
which monitors operation of a technical system of a customer, under
conditions that are relevant for said customer;

installing a software system in a technical system of said customer for
operating said technical system;

operating said technical system of said customer and, during operation of said
technical system of said customer, monitoring said technical system
with said operation model; and

evaluating operation of said technical system of said customer with said
operation model to detect errors in said operation of said technical
system.

2. A method as claimed in claim 1 comprising installing said technical
system with an original software system and operating said technical system with
said original software system with said operation model.

3. A method as claimed in claim 2 comprising after operation and
monitoring of said technical system of the customer with said operation model,
reverting to said original software to operate said technical system.

4. A method as claimed in claim 2 comprising, from said evaluation of the
operation of the technical system of the customer with the operation model,
generating feedback and providing said feedback to a software developer.

5. A method as claimed in claim 4 comprising analyzing said feedback and developing an improvement of said original software system based on said feedback.

6. A method as claimed in claim 1 comprising in said operation model, documenting, as protocol, at least one of input parameters, input data and boundary conditions of said technical system of said customer.

7. A method as claimed in claim 6 comprising in said operation model, establishing limit values differentiating between error-free operation of said technical system and erroneous operation of said technical system.

8. A method as claimed in claim 6 comprising in said operation model, automatically implementing an operation procedure associated with said technical system, in addition to said documenting.